CHEMICAL ASSOCIATES
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Building B
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MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891 **CHEMTREC: 800-424-9300**
MSDS REFERENCE: CA0420

SECTION I - IDENTIFICATION

PRODUCT: CA0420 TALL OIL MIXED FATTY ACID
SYNONYMS:
CHEMICAL: TALL OIL DISTILLATION FRACTIONS
CAS NO: 8002 - 26 - 4
SARA HAZARD: TITLE III SECTION 302/304 NOT LISTED
TITLE III SECTION 311/312 NONE NOTED
TITLE III SECTION 313 NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
TALL OIL FATTY ACIDS, (61790-12-3)	75	NONE / NONE	NONE NOTED
RESIN (ROSIN) ACIDS (8050-09-7)	21	NONE / NONE	NONE NOTED

SECTION III - HEALTH INFORMATION

INHALATION: PROLONGED EXPOSURE TO SMOKE OR FUMES GENERATED BY HEATING THIS PRODUCT MAY CAUSE RESPIRATORY IRRITATION WITH THROAT DISCOMFORT, COUGHING, OR BREATHING DIFFICULTY. REPEATED EXPOSURE MAY LEAD TO RESPIRATORY SENSITIZATION (ASTHMA) IN SUSCEPTIBLE INDIVIDUALS. IF THIS PRODUCT IS HEATED TO TEMPERATURES SUFFICIENT TO PRODUCE SMOKE OR FUMES, THE TLV-TWA OF 0.1 mg / m3 (AS FORMALDEHYDE) FOR ROSIN CORE SOLDER PYROLYSIS PRODUCTS SHOULD BE OBSERVED.

INGESTION: NO TOXIC DATA REPORTED.

EYE CONTACT: MAY CAUSE MILD, TEMPORARY EYE IRRITATION.

SKIN CONTACT: MAY CAUSE MILD, TEMPORARY SKIN IRRITATION. NOTE: THIS PRODUCT CONTAINS ROSIN OR A ROSIN DERIVATIVE. ROSIN AND SOME OF ITS DERIVATIVES HAVE BEEN REPORTED TO CAUSE AN ALLERGIC SKIN REACTION (SENSITIZATION) IN SUSCEPTIBLE

INDIVIDUALS AFTER REPEATED OR PROLONGED SKIN CONTACT.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: NO OSHA PEL
TLV: NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

INGESTION: IF SWALLOWED, DILUTE WITH LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING UNLESS OTHERWISE INSTRUCTED. CONSULT A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS INDIVIDUAL.

INHALATION: REMOVE TO FRESH AIR AND REST IN HALF UPRIGHT POSITION. TREAT ANY IRRITATION SYMPTOMATICALLY. GET MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP. IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH AND SEEK MEDICAL ASSISTANCE.

EYE CONTACT: REMOVE CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

SECTION VI - PHYSICAL DATA

BOILING POINT: >662 DEG F (>350 DEG C)
FREEZING POINT: SOLIDS MAY FORM BELOW 35 DEG C, (95 DEG F)
VAPOR PRESSURE: <1 mmHg AT 20 DEG C
SPECIFIC GRAVITY: 0.93
SOLUBILITY IN WATER: SLIGHTLY SOLUBLE
APPEARANCE AND COLOR: AMBER, OILY LIQUID, FATTY ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: >300 DEG F (>149 DEG C), C.O.C.
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER: NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT ESTABLISHED
NFPA RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. WATER SPRAY, DRY CHEMICAL, FOAM, CARBON DIOXIDE OR HALON MAY BE USED ON FIRES INVOLVING THIS PRODUCT. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED TO FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG F (100 DEG C). THE REMARK IS INCLUDED ONLY AS A PRECAUTION AND DOES NOT MEAN THAT WATER OR FOAM SHOULD NOT OR COULD NOT BE USED IN FIGHTING FIRES IN SUCH LIQUIDS. THE FROTHING MAY

BE QUITE VIOLENT AND COULD ENDANGER THE LIFE OF THE FIREFIGHTER PARTICULARLY WHEN SOLID STREAMS ARE DIRECTED INTO THE HOT BURNING LIQUID. ON THE OTHER HAND, WATER SPRAY CAREFULLY APPLIED HAS FREQUENTLY BEEN USED WITH SUCCESS IN EXTINGUISHING SUCH FIRES BY CAUSING THE FROTHING TO OCCUR ONLY ON THE SURFACE AND THIS FOAMING ACTION BLANKETS AND EXTINGUISHES THE FIRE. (NFPA 325M-1984)

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE AND FULL PROTECTIVE GEAR WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS. EMITS ACID SMOKE AND FUMES UNDER FIRE CONDITIONS. COOL CONTAINERS TO PREVENT RUPTURE.

SECTION VIII - REACTIVITY

STABILITY:	STABLE UNDER RECOMMENDED HANDLING AND STORAGE CONDITIONS.
HAZARDOUS POLYMERIZATION:	NOT ANTICIPATED UNDER NORMAL OR RECOMMENDED HANDLING AND STORAGE CONDITIONS.
CONDITIONS AND MATERIALS TO AVOID:	NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS:	SPONTANEOUS COMBUSTION MAY OCCUR IF RAGS OR TRASH SOAKED WITH THIS MATERIAL ARE CONFINED IN PILES OR BINS. SOAKED VESSEL OR PIPING INSULATION MAY BE SUBJECT TO COMBUSTION, THE FOLLOWING SUBSTANCES MAY BE FORMED: CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES AND CARBOXYLIC ACIDS.

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES:

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH THOROUGHLY AFTER HANDLING, AND BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING PROMPTLY, AND CLEAN THOROUGHLY BEFORE REUSE. EYEWASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE EASILY ACCESSIBLE. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

RECOMMENDED EXPOSURE LIMITS (I.E., OSHA - PEL AND AOGIH - TLV) HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL. WHETHER THERE IS A NEED FOR RESPIRATORY PROTECTION UNDER YOUR CONDITIONS OF HANDLING OF THIS MATERIAL SHOULD BE EVALUATED BY A QUALIFIED HEALTH SPECIALIST.

PROTECTIVE CLOTHING:

WEAR GLOVES AND PROTECTIVE CLOTHING WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS

POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

EYE PROTECTION:

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF SPLASHING OR OTHER CONTACT WITH THE EYES.

SECTION X - ENVIRONMENTAL PROTECTION

ENVIRONMENTAL PRECAUTIONS:

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED.. DISCHARGE FROM A VENTILATION SYSTEM SHOULD COMPLY WITH APPLICABLE AIR POLLUTION CONTROL REGULATIONS.

SPILL OR LEAK PRECAUTIONS:

WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION IX. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS. .

WASTE DISPOSAL:

ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE. SPONTANEOUS COMBUSTION MAY OCCUR IN RAGS OR OTHER CLEAN-UP MATERIALS NOT PROPERLY DISPOSED OF.

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION:	NOT REGULATED
DOT PROPER SHIPPING NAME:	N/A
OTHER DOT INFORMATION:	N/A

OTHER REGULATORY REQUIREMENTS:

LISTED ON TSCA INVENTORY.
LISTED ON CANADIAN DSL

CERCLA HAZARDOUS MATERIALS:

NONE LISTED

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

THERE ARE NO UNUSUAL HAZARDS ASSOCIATED WITH HANDLING OF THIS PRODUCT.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

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DATE: 09/20/10
SUPERSEDES: 04/15/07